2000 ANNUAL INDEX OF THE JOURNAL OF COATINGS TECHNOLOGY

Volume 72 — Numbers 900-911

January–December, 2000

Keyword Subject Index

Additives

Anti-Crater ..... Apr., p. 63; June, p. 61
Dispersants ..... July, p. 65; Oct., p. 145
Driers ..... July, p. 65
Rheological/Flow Control ..... Oct., p. 161

Analysis

Atomic Force Microscopy ... May, p. 55; July, p. 65; Aug., p. 89
Corrosion Testing ..... Sept., p. 81
Differential Scanning Calorimetry ..... May, p. 47; Oct., p. 161
Dynamic Mechanical Properties ..... Apr., p. 45; May, p. 47; Aug., p. 89
Electrochemical Impedance ..... Sept., p. 81
Electron Microscopy ..... Feb., p. 83, Oct., p. 145
ESCA, XPS, Auger, SIMS ... Feb., p. 69; Mar., p. 53; Apr., p. 63; May p. 39; June, p. 61; Oct., p. 135
Fluorescence Spectroscopy ..... Apr., p. 45
FTIR, ATR ..... Jan., p. 69; Apr., p. 35; May, p. 71; Sept., p. 89; Oct., p. 161; Dec., p. 51
Gas Chromatography ..... Jan., p. 63
Gravimetric ..... Feb., p. 77
Hardness, Scratch Resistance ..... Feb., p. 83; May, p. 47; July, p. 79; Aug., p. 89
Non-Destructive Testing ..... Aug., p. 103
Odor ..... Aug., p. 97
Rheology ..... Jan., p. 63; June, p. 67; July, p. 49; Oct., p. 145
Solvents, VOC ..... Jan., p. 69; Aug., p. 97
Surface Analysis ..... Mar., p. 53; May, p. 39
Tensile Testing ..... Apr., p. 45

Chemical Processes

Corrosion, Corrosion Protection ..... Jan., p. 45; Sept., p. 81; Nov., p. 21; Dec., p. 73
Crosslinking, Cure ..... Feb., p. 77; Apr., p. 63; May, p. 63; June, p. 45; June, p. 61; Sept., p. 89; Oct., p. 161; Nov., p. 21; Dec., p. 51
Latexes, Colloids, Emulsions ..... May, p. 63; June, p. 45
Photochemistry ..... May, p. 71; Jun, p. 45; Dec., p. 51
Photodegradation ..... Mar., p. 35
Polymerization ..... Mar., p. 63; Mar., p. 71; May, p. 55; Aug., p. 107; Sept., p. 71

Classes of Coatings

Aerospace, Aircraft .....
Architectural ..... Mar., p. 43; Apr., p. 45; May, p. 55; June, p. 67; Dec., p. 67
Automotive—OEM ..... Feb., p. 77; Apr., p. 63; May, p. 39; May, p. 47; June, p. 61; July, p. 79; Aug., p. 89; Sept., p. 89; Dec., p. 61
Automotive—Refinish ..... Mar., p. 63
Barrier ..... Sept., p. 71
Can ..... Feb., p. 69; Oct., p. 125
Coil ..... Sept., p. 81; Oct., p. 135
EB, UV, Radiation Cure ..... May, p. 71; June, p. 45; June, p. 53; July, p. 49; Oct., p. 135; Dec., p. 51
Fouling Release ..... Jan., p. 45
High Solids ..... Mar., p. 53; May, p. 39; Oct., p. 125
Industrial Maintenance ..... Feb., p. 91; Mar., p. 63
Ink Jet Ink ..... June, p. 45
Latex ..... Feb., p. 91; Mar., p. 35; Mar., p. 43
Marine ..... Jan., p. 45
Oil-Based ..... Mar., p. 35; Mar., p. 43; Aug., p. 107
Packaging ..... Jan., p. 69
Polyurethanes ..... Mar., p. 63; July, p. 79
Powder ..... May, p. 71; July, p. 49; July, p. 55; Oct., p. 145
Solvent-based ..... Apr., p. 35; Aug., p. 107
Thermoset ..... May, p. 63; July, p. 55
Water-based ..... Jan., p. 57; Mar., p. 35; Mar., p. 63; Apr., p. 45; May, p. 55; May p. 63
Weather-Repellant Preservative ..... Mar., p. 43

Coatings Components

Acrylics ..... Jan., p. 57; Mar., p. 43; Mar., p. 53; Mar., p. 63; Apr., p. 45; May, p. 39; May p. 55; July, p. 49; July, p. 79; Sept., p. 61; Oct., p. 153; Dec., p. 73
Alkyds ..... Mar., p. 43; May, p. 55
Epoxy Resins ..... Feb., p. 69; Mar., p. 43; Apr., p. 63; June, p. 45; June, p. 61; July, p. 55; Oct., p. 125; Oct., p. 135; Dec., p. 73
Fluorinated Polymers ..... June, p. 53
Isocyanates ..... May, p. 47; July, p. 55
Latexes, Colloids, Emulsions ..... Jan., p. 57; Feb., p. 91; May, p. 63; June, p. 67; July, p. 65; Oct., p. 153
Melamine-Formaldehyde Resins ..... Mar., p. 53; Apr., p. 63; May, p. 39; May, p. 47; Sept., p. 89; Oct., p. 153
Oils (castor, linseed, styrenated, sunflower) ..... Mar., p. 43; Aug., p. 107
Photoinitiators ..... June, p. 45
Pigments ..... Feb., p. 91; Aug., p. 103; Oct., p. 145; Dec., p. 67
Polyesters ..... Feb., p. 83; Apr., p. 63; June, p. 61; July, p. 49; July, p. 79; Oct., p. 161; Dec., p. 73
Polyurethanes ..... Jan., p. 45; Mar., p. 63; Apr. p. 35; May, p. 47; July, p. 55; Aug., p. 79; Oct. p. 161; Dec., p. 67; Dec. p. 51
Silicones, Silicates ..... Feb., p. 83

2000 ANNUAL INDEX OF THE JOURNAL OF COATINGS TECHNOLOGY

Volume 72 — Numbers 900-911

January–December, 2000

Keyword Subject Index

Additives

Anti-Crater ..... Apr., p. 63; June, p. 61
Dispersants ..... July, p. 65; Oct., p. 145
Driers ..... July, p. 65
Rheological/Flow Control ..... Oct., p. 161

Analysis

Atomic Force Microscopy ... May, p. 55; July, p. 65; Aug., p. 89
Corrosion Testing ..... Sept., p. 81
Differential Scanning Calorimetry ..... May, p. 47; Oct., p. 161
Dynamic Mechanical Properties ..... Apr., p. 45; May, p. 47; Aug., p. 89
Electrochemical Impedance ..... Sept., p. 81
Electron Microscopy ..... Feb., p. 83, Oct., p. 145
ESCA, XPS, Auger, SIMS ... Feb., p. 69; Mar., p. 53; Apr., p. 63; May p. 39; June, p. 61; Oct., p. 135
Fluorescence Spectroscopy ..... Apr., p. 45
FTIR, ATR ..... Jan., p. 69; Apr., p. 35; May, p. 71; Sept., p. 89; Oct., p. 161; Dec., p. 51
Gas Chromatography ..... Jan., p. 63
Gravimetric ..... Feb., p. 77
Hardness, Scratch Resistance ..... Feb., p. 83; May, p. 47; July, p. 79; Aug., p. 89
Non-Destructive Testing ..... Aug., p. 103
Odor ..... Aug., p. 97
Rheology ..... Jan., p. 63; June, p. 67; July, p. 49; Oct., p. 145
Solvents, VOC ..... Jan., p. 69; Aug., p. 97
Surface Analysis ..... Mar., p. 53; May, p. 39
Tensile Testing ..... Apr., p. 45

Chemical Processes

Corrosion, Corrosion Protection ..... Jan., p. 45; Sept., p. 81; Nov., p. 21; Dec., p. 73
Crosslinking, Cure ..... Feb., p. 77; Apr., p. 63; May, p. 63; June, p. 45; June, p. 61; Sept., p. 89; Oct., p. 161; Nov., p. 21; Dec., p. 51
Latexes, Colloids, Emulsions ..... May, p. 63; June, p. 45
Photochemistry ..... May, p. 71; Jun, p. 45; Dec., p. 51
Photodegradation ..... Mar., p. 35
Polymerization ..... Mar., p. 63; Mar., p. 71; May, p. 55; Aug., p. 107; Sept., p. 71

Classes of Coatings

Aerospace, Aircraft .....
Architectural ..... Mar., p. 43; Apr., p. 45; May, p. 55; June, p. 67; Dec., p. 67
Automotive—OEM ..... Feb., p. 77; Apr., p. 63; May, p. 39; May, p. 47; June, p. 61; July, p. 79; Aug., p. 89; Sept., p. 89; Dec., p. 61
Automotive—Refinish ..... Mar., p. 63
Barrier ..... Sept., p. 71
Can ..... Feb., p. 69; Oct., p. 125
Coil ..... Sept., p. 81; Oct., p. 135
EB, UV, Radiation Cure ..... May, p. 71; June, p. 45; June, p. 53; July, p. 49; Oct., p. 135; Dec., p. 51
Fouling Release ..... Jan., p. 45
High Solids ..... Mar., p. 53; May, p. 39; Oct., p. 125
Industrial Maintenance ..... Feb., p. 91; Mar., p. 63
Ink Jet Ink ..... June, p. 45
Latex ..... Feb., p. 91; Mar., p. 35; Mar., p. 43
Marine ..... Jan., p. 45
Oil-Based ..... Mar., p. 35; Mar., p. 43; Aug., p. 107
Packaging ..... Jan., p. 69
Polyurethanes ..... Mar., p. 63; July, p. 79
Powder ..... May, p. 71; July, p. 49; July, p. 55; Oct., p. 145
Solvent-based ..... Apr., p. 35; Aug., p. 107
Thermoset ..... May, p. 63; July, p. 55
Water-based ..... Jan., p. 57; Mar., p. 35; Mar., p. 63; Apr., p. 45; May, p. 55; May p. 63
Weather-Repellant Preservative ..... Mar., p. 43

Coatings Components

Acrylics ..... Jan., p. 57; Mar., p. 43; Mar., p. 53; Mar., p. 63; Apr., p. 45; May, p. 39; May p. 55; July, p. 49; July, p. 79; Sept., p. 61; Oct., p. 153; Dec., p. 73
Alkyds ..... Mar., p. 43; May, p. 55
Epoxy Resins ..... Feb., p. 69; Mar., p. 43; Apr., p. 63; June, p. 45; June, p. 61; July, p. 55; Oct., p. 125; Oct., p. 135; Dec., p. 73
Fluorinated Polymers ..... June, p. 53
Isocyanates ..... May, p. 47; July, p. 55
Latexes, Colloids, Emulsions ..... Jan., p. 57; Feb., p. 91; May, p. 63; June, p. 67; July, p. 65; Oct., p. 153
Melamine-Formaldehyde Resins ..... Mar., p. 53; Apr., p. 63; May, p. 39; May, p. 47; Sept., p. 89; Oct., p. 153
Oils (castor, linseed, styrenated, sunflower) ..... Mar., p. 43; Aug., p. 107
Photoinitiators ..... June, p. 45
Pigments ..... Feb., p. 91; Aug., p. 103; Oct., p. 145; Dec., p. 67
Polyesters ..... Feb., p. 83; Apr., p. 63; June, p. 61; July, p. 49; July, p. 79; Oct., p. 161; Dec., p. 73
Polyurethanes ..... Jan., p. 45; Mar., p. 63; Apr. p. 35; May, p. 47; July, p. 55; Aug., p. 79; Oct. p. 161; Dec., p. 67; Dec. p. 51
Silicones, Silicates ..... Feb., p. 83

Coating Processes

Application Methods ..... Jan., p. 63; May, p. 39; June, p. 73; Dec., p. 73
Cure ..... Apr., p. 63; June, p. 45; July, p. 55; Sept., p. 89; Oct., p. 135
Drying ..... July, p. 65; Dec., p., 73
Electrodeposition ..... Oct., p. 153
Electropolymerization ..... Sept., p. 71
Elimination ..... Jan., p. 57
Film Formation ..... Apr., p. 45
Flow, Levelling ..... July, p. 49
Powder ..... May, p. 71; July, p. 49; July, p. 55; Oct., p. 153; Dec., p. 73
Reaction Kinetics ..... May, p. 63; Oct., p. 161
Rheology ..... Jan., p. 63
Solventborne ..... Oct., p. 153
UV, EB, Radiation Cure ..... May, p. 71; June, p. 45; July, p. 49; Dec., p. 51; Dec., p. 73
Waterborne ..... Jan., p. 57; Mar., p. 63; Apr., p. 45; May, p. 47; May, p. 55; June, p. 45; June, p. 67; Dec., p. 51; Dec., p. 73

Coatings Properties

Accelerated Testing ..... Feb., p. 77; Mar., p. 53; May, p. 39; June, p. 73; July, p. 79; Sept., p. 81
Adhesion ..... Jan., p. 45; Feb., p. 69; Mar., p. 43; Apr. p. 35; Apr., p. 63; June, p. 61; Aug., p. 107; Sept., p. 81; Oct., p. 125; Oct., p. 135
Appearance ..... Feb., p. 77; Mar., p. 53; June, p. 73; Dec., p. 61
Color Measurement ..... Dec., p. 67
Corrosion ..... Sept., p. 81
Defects ..... May, p. 39; June, p. 73
Drying Time ..... Aug., p. 107
Durability ..... Feb., p. 77; Mar., p. 53; July, p. 79; Sept., p. 81; Dec. , p. 67
Flexibility ..... Aug., p. 107
Gloss ..... Dec., p. 61
Hardness, Scratch Resistance ..... Feb., p. 83; May, p. 47; July, p. 79; Aug., p. 89; Oct., p. 125
Mechanical Properties ..... Jan., p. 45; July, p. 55; July, p. 79; Aug., p. 89
Morphology ..... Feb., p. 83
Package Stability ..... May, p. 55
Physical Properties ..... Feb., p. 69; May, p. 63; Aug., p. 89; Aug., p. 103; Oct., p. 125; Dec., p. 67
Service Life Prediction ..... July, p. 81
Solvent Resistance ..... July, p. 55; Aug., p. 107; Sept., p. 89; Oct., p. 135
Weatherability ..... Mar., p. 43; June, p. 53; Oct., p. 153; Dec., p. 67

Computer Applications

Design of Experiments ..... June, p. 53; June, p. 73
Factorial Design ..... Sept., p. 71

Environmental Concerns, Regulations

Acid Rain ..... Feb., p. 77; Mar., p. 53; May, p. 39
Air Quality ..... Aug., p. 97; Sept., p. 61
Emissions ..... Mar., p. 71; Aug., p. 97; Sept., p. 61
HAP Control ..... Mar., p. 71
Health Effects ..... Jan., p. 45; Aug., p. 97
Pollution ..... Jan., p. 57; Aug., p. 97
Recycle ..... Jan., p. 57
Regulatory Policy ..... June, p. 67
VOC Control ..... Mar., p. 63; May, p. 55; July, p. 65; Aug., p. 97; Oct., p. 125

Formulation

CPVC ..... Nov., p. 21
High Solids ..... Sept., p. 61; Oct., p. 125
Hybrids ..... Feb., p. 83
Pigmentation ..... Feb., p. 91; Nov., p. 21
Powder ..... July, p. 55
Solvents ..... June, p. 67
Statistical Design ..... June, p. 53; June, p. 73

Pigments

Color ..... Dec., p. 67
Corrosion ..... Nov., p. 21
Dispersion ..... Feb., p. 91; Oct., p. 145
Dyes ..... June, p. 45
Fluoropolymer ..... June, p. 53
Formulation ..... Nov., p. 21
Iron Oxide ..... Feb., p. 91
Pigment Morphology ..... Feb., p. 91
Pigment Optics ..... Aug., p. 103
Surface Chemistry ..... July, p. 65

Polymers, Polymerization, Polymeric Components

Acrylics ..... Jan., p. 57; Mar., p. 53; Mar., p. 63; Apr., p. 45; May, p. 55; June, p. 67; July, p. 49; Sept., p. 61; Sept., p. 89; Oct., p. 153
Alkyds ..... Mar., p. 71; May, p. 55
Epoxy ..... Feb., p. 69
Esters ..... Mar., p. 71; May, p. 39; July, p. 49; Oct., p. 145
Melamine ..... Feb., p. 83; May, p. 39
Process Models ..... Sept., p. 61; Dec., p. 51
Reaction Kinetics ..... Dec., p. 51

Pretreatment, Conversion Coating

Conversion Coating ..... Dec., p. 67

Solvents

Oxygenated ..... Mar., p. 71
Evaporation ..... June, p. 67; Aug., p. 97
Formulation ..... June, p. 67; Aug., p. 97
Solvency, Solubility Parameters ..... June, p. 67; Aug., p. 97
VOC ..... Jan., p. 69

Substrates

Aluminum ..... Jan., p. 45
Coating-Substrate Interface ..... Apr., p. 35; Oct., p. 161
Galvanized Steel; Alloy Coated Steel ..... Feb., p. 69; July, p. 79; Sept., p. 81; Oct., p. 135
Iron, Cast Iron, Steel ..... Sept., p. 71; Oct., p. 125
Plastics ..... Jan., p. 57; Apr., p. 35; May, p. 47
Thermoplastic Olefins ..... Jan., p. 57
Wood ..... Mar., p. 35; June,p. 73

Alphabetical Listing of Papers

Acid Etch of Automotive Clearcoats II. Comparison of Degradation Chemistry in Laboratory and Field Testing—P.J. Schmitz, J.W. Holubka, and L-F. Xu, Mar., p. 53.

Acid Etch Resistance of Automotive Clearcoats. I: Laboratory Test Method Development—J.W. Holubka, P.J. Schmitz, and L-F. Xu, Feb., p. 77.

Advanced Testing Procedures for High Performance Coatings—F. Deflorian, S. Rossi, P.L. Bonora, and L. Fedrizzi, Sept., p. 81.

Analysis of Exempt Paint Solvents by Gas Chromatography Using Solid-Phase Microextraction—Golden Gate Society for Coatings Technology Technical Committee, Jan., p. 69.

Angular Plane Curtain Coating by Drawdown of Extruded Polymer—F. Ding, A.J. Giacomin, and J.C. Slattery, Jan., p. 63.

Bake Oven Induced Variation of Surface Chemistry on Electrocoat Paint: Effect on Primer-Electrocoat Intercoat Adhesion—L.P. Haack and J.W. Holubka, Apr., p. 63.

Cationic UV-Curable Formulations Containing Hydroxy Functional Fluoropolymer Resins—G.K. Noren, June, p. 53.

Cationic, Thermally Cured Coatings Using Epoxidized Soybean Oil—R. Raghavachar, G. Sarnecki, J. Baghdachi and J. Massingill, Oct., p. 125.

Clean Hulls Without Poisons: Devising and Testing Nontoxic Marine Coatings—R.F. Brady, Jr., Jan., p. 44

Decomposable Crosslinking Paint: Waste Minimization—Y. Nakayama, Jan., p. 57.

Drying of Alkyd Emulsion Paints—P.K. Weissenborn and A. Motiejauskaite, July, p. 65.

Effect of Acid Groups in Hydroxyl Functional Resins on the Properties of Polyester-Urethane Powder Coatings—B. Wu, S. Padaki, and D. Maetens, July, p. 55.

Effect of Carbon Black on Adhesion to Plastics in Solventborne 2K Polyurethanes—K.S. Katti and M.W. Urban, Apr., p. 35.

Effect of Crosslinker Reaction Rate on Film Properties for Thermoset Coatings—W.T. Brown, May, p. 63.

Effect of Extenders with Narrow and Broad Particle Size Distributions on the Properties of Coatings—R. Werner, Apr., p. 71

Effect of Formulation Variables on Coating Properties and Performance in the Deep Draw Process—A. Polyakova, A. Hiltner, E. Baer, and T. Provder, Feb., p. 69.

Effect of Particle Size Distribution on the Performance of Two-Component Water-Reducible Acrylic Polyurethane Coatings Using Tertiary Polyisocyanate Crosslinkers—D.E. Fiori, D.A. Ley, and R.J. Quinn, Mar., p. 63.

Effects of Reaction Conditions on the Formation of Poly(2-Vinylpyridine) Coatings by Electropolymerization—X. Ling, M.D. Pritzker, C.M. Burns, and J. J. Byerley, Sept., p. 71.

Evaluation of Alkane Sulfonic Acid Catalysts and Derivatives for Curing Activity in a Melamine/Acrylic Polyol Coating Formulation Using Fourier Transform Infrared Spectroscopy—D. Garcia, S.R. Sandler, J. Brennan, and O. Bousquet, Sept., p. 89.

Formulating Water-Based Systems with Propylene-Oxide-Based Glycol Ethers—C.L. Rodriguez, J. Weathers, B. Corujo, and P. Peterson, June, p. 67.

Imaging Ellipsometry Study of Multi-Layer Microflakes—H. Rafla-Yuan and D. Hoenig, Aug., p. 103.

Improving Pigment Dispersing in Powder Coatings with Block Copolymer Dispersants—F.L. Duivenvoorde, C.F. van Nostrum, J. Laven, and R. van der Linde, Oct., p. 145.

Influence of Coating Formulation Variables and Processing on the Adhesion of Melamine-Crosslinked Polyester Primer to Urethane-Crosslinked Epoxy Electrocoat—L.P. Haack and J.W. Holubka, June, p. 61.

Low VOC, Low Viscosity UV Cationic Radiation-Cured Ink-Jet Ink System—H. Zhang, J.L. Massingill, and J.T.K. Woo, June, p. 45.

Measurement of Mar Resistance and Study of Marring Mechanism of Polymeric Coatings with Scanning Probe Microscope—W.C. Shen, B. Jiang, and F.N. Jones, Aug., p. 89.

Mechanism for Environmental Etch of Acrylic Melamine-Based Automotive Clearcoats: Identification of Degradation Products—P.J. Schmitz, J.W. Holubka, and L-F. Xu, May, p. 39.

Morphology of Hybrid Coatings Based on Polyester, Melamine Resin, and Silica and the Relation with Hardness and Scratch Resistance—S. Frings, C.F. van Nostrum, R. van der Linde, H.A. Meinema, and C.H.A. Rentrop, Feb., p. 83.

New Developments in Radiation-Curable Powder Coatings—S. Udding-Louwrier, R.A. Baijards, and E.S. de Jong, May, p. 71.

New Primary Standard for Specular Gloss Measurements—M.E. Nadal and E.A. Thompson, Dec., p. 61.

A Novel Concept for Low Temperature Curing Powder Coatings Based on Hyperbranched Polyesters—M. Johansson, E. Malmström, A. Jansson, and A. Hult, July, p. 49.

Novel Synthesis of Carboxy-Functional Soybean Acrylic-Alkyd Resins for Water-Reducible Coatings—C. Wang, G. Lin, J.-H. Pae, F.N. Jones, H. Ye, and W. Shen, May, p. 55.

Performance of Coil Coating Primers: A Comparison of Three Complementary Test Methods—C. Lowe, L. Devos, V. Lavaste, G.C. Simmons, and J.F. Watts, Oct., p. 135.

Polymer Diffusion and Mechanical Properties of Films Prepared from Crosslinked Latex Particles—P. Pinenq, M.A. Winnik, B. Ernst, and D. Juhué, Apr., p. 45.

Practical Example of a Coating Process Quality Improvement through Designed Experiments—B. Scibilia, A. Kobi, R. Chassagnon, and A. Barreau, June, p. 73.

Preparation of Reversible Thermochromic Building Coatings and Their Properties—Y. Ma, B. Zhu, and K. Wu, Dec., p. 67.

Reduced PVC and the Design of Metal Primers—C.H. Hare and J.S. Kurnas, Nov., p. 21.

Restoration of Severely Weathered Wood—R.S. Williams and M. Knaebe, Mar., p. 43.

Scratch Durability of Automotive Clear Coatings: A Quantitative, Reliable and Robust Methodology—V. Jardret, B.N. Lucas, W. Oliver, and A.C. Ramamurthy, Aug., p. 79.

Scratch Resistance Behavior of Model Coating Systems—R.A.

Ryntz, B.D. Abell, G.M. Pollano, L.H. Nguyen, and W.C. Shen, May, p. 47.
Solvent Blends Based on Dipropylene Glycol Dimethyl Ether for the Production of Alkyd and Polyester Resins by the Azeotropic Process—F.A. Donate, D.A. Timmers and J.W. Kappen, Mar., p. 71.
Study of Odor Qualification of Solvents Used in Coating Compositions—P.D. Ziemer, J. Woo, and T. Anagnostou, Aug., p. 97.
A Study of the Effect of Different Iron Oxide Pigment Grades on Properties of an Industrial Latex Coating—Chicago Society for Coatings Technology Technical Committee, Feb., p. 91.
Styrenation of Triglyceride Oils by Macromonomer Technique—F.S. Güner, S. Usta, A.T. Erciyes, and Y. Yagci, Aug., p. 107.
Synthesis of Acrylic Resins for High-Solids Coatings by Solution and Separation Polymerization—C.D. Diakoumakos, Q. Xu, F.N. Jones, J. Baghdachi, and L. Wu, Sept., p. 61.

UV Curing of Aqueous Polyurethane Acrylate Dispersions. A Comparative Study by Real-Time FTIR Spectroscopy and Pilot Scale Curing—A. Tauber, T. Scherzer, and R. Mehnert, Dec., p. 51.

Weather-Stable Low-Gloss Powder Coatings—P. Thometzek, U. Freudenberg, U. Meier-Westhues, and K. Yonek, July, p. 75.

Educational Series

Polymerization Processes: Part I—Step Growth Polymerization, F.H. Walker, Feb., p. 61.
Polymerization Processes: Part II—Chain-Growth Polymerization, F.H. Walker, Mar., p. 79.
Polymerization Processes: Part III—Latexes and Emulsion Polymerization, F.H. Walker, Apr., p. 27.
Polymerization Processes: Part IV—Other Polymerization Processes, F.H. Walker, May, p. 35.
Wood Properties Affecting Finish Service Life—R.S. Williams, C. Jourdain, G.I. Daisey, and R.W. Springate, Mar., p. 35.

Short Communications

Effect of Turnover Rate on the Change of Concentration of an Unstable Compound in a Dip Coating Bath—T. Sato, July, p. 81.
Surface Pattern Formation in UV-Curable Coatings—A. Luciani, C.J.G. Plummer, R. Gensler, and J-A. E. Månson, Oct., p. 161.
Zero VOC Sunlight Curable Coatings—H. Zhang, J.L. Massingill, and J.T., Woo, Apr., p. 77.

Open Forum

New Anti-Corrosive Painting Technologies at the Beginning of the 21st Century—E. Almeida, Dec., p. 73.
Targets for Resin Development in the New Millennium—F.N. Jones, Oct., p. 153.

Author Index

Abell, B.D.—See Ryntz, R.A.
Almeida, E.—New Anti-Corrosive Painting Technologies at the Beginnning of the 21st Century, Dec., p. 73.
Anagnostou, T.—See Ziemer, P.D.

Baer, E.—See Polyakova, A.
Baghdachi, J.—See Diakoumakos, C.D.
Baghdachi, J.—See Raghavachar, R.
Baijards, R.A.—See Udding-Louwrier.
Barreau, A.—See Scibilia, B.
Bonora, P.L.—See Deflorian, F.
Bousquet, O.—See Garcia, D.
Brady, Jr., R.F.—Clean Hulls Without Poisons: Devising and Testing Nontoxic Marine Coatings, Jan., p. 44.
Brennan, J.—See Garcia, D.
Brown, W.T.—Effect of Crosslinker Reaction Rate on Film Properties for Thermoset Coatings, May, p. 63.
Burns, C.M.—See Ling, X.
Byerley, J.J.—See Ling, X.

Chasssagnon, R.—See Scibilia, B.
Chicago Society for Coatings Technology Technical Committee—A Study of the Effect of Different Iron Oxide Pigment Grades on Properties of an Industrial Latex Coating, Feb., p. 91.
Corujo, B.—See Rodriguez, C.L.

Daisey, G.I.—See Williams, R.S.
de Jong, E.S.—See Udding-Louwrier.

Deflorian, F., Rossi, S., Bonora, P.L. and Fedrizzi, L.—Advanced Testing Procedures for High Performance Coatings, Sept., p. 81.
Devos, L.—See Lowe, C.
Diakoumakos, C.D., Xu, Q., Jones, F.N., Baghdachi, J., and Wu, L.—Synthesis of Acrylic Resins for High-Solids Coatings by Solution and Separation Polymerization, Sept., p. 61.
Ding, F., Giacomin, A.J., and Slattery, J.C.—Angular Plane Curtain Coating by Drawdown of Extruded Polymer, Jan., p. 63.
Donate, F.A., Timmers, D.A., and Kappen, J.W.—Solvent Blends Based on Dipropylene Glycol Dimethyl Ether for the Production of Alkyd and Polyester Resins by the Azeotropic Process, Mar., p. 71.
Duivenvoorde, F.L., van Nostrum, C.F., Laven, J., van der Linde, R.—Improving Pigment Dispersing in Powder Coatings with Block Copolymer Dispersants, Oct., p. 145.

Erciyes, A.T.—See Güner, F.S.
Ernst, B.—See Pinenq, P.

Fedrizzi, L.—See Deflorian, F.
Fiori, D.E., Ley, D.A., and Quinn, R.J.—Effect of Particle Size Distribution on the Performance of Two-Component Water-Reducible Acrylic Polyurethane Coatings Using Tertiary Polyisocyanate Crosslinkers, Mar., p. 63.
Freudenberg, U.—See Thometzek, P.
Frings, S., van Nostrum, C.F., van der Linde, R., Meinema, H.A., and Rentrop, C.H.A.—Morphology of Hybrid Coatings

Based on Polyester, Melamine Resin, and Silica and the Relation with Hardness and Scratch Resistance, Feb., p. 83.

Garcia, D., Sandler, S.R., Brennan, J., and Bousquet, O.—Evaluation of Alkane Sulfonic Acid Catalysts and Derivatives for Curing Activity in a Melamine/Acrylic Polyol Coating Formulation Using Fourier Transform Infrared Spectroscopy, Sept., p. 89.
Gensler, R.—See Luciani, A.
Giacomin, A.J.—See Ding, F.
Golden Gate Society for Coatings Technology Technical Committee—Analysis of Exempt Paint Solvents by Gas Chromatography Using Solid-Phase Microextraction, Jan., p. 69.
Güner, F.S., Usta, S., Erciyes, A.T., and Yagci, Y.—Styrenation of Triglyceride Oils by Macromonomer Technique, Aug., p. 107.

Haack, L.P. and Holubka, J.W.—Bake Oven Induced Variation of Surface Chemistry on Electrocoat Paint: Effect on Primer-Electrocoat Intercoat Adhesion, Apr., p. 63.
Haack, L.P. and Holubka, J.W.—Influence of Coating Formulation Variables and Processing on the Adhesion of Melamine-Crosslinked Polyester Primer to Urethane-Crosslinked Epoxy Electrocoat, June, p. 61
Hare, C.H. and Kurnas, J.S.—Reduced PVC and the Design of Metal Primers, Nov., p. 21.
Hiltner, A.—See Polyakova, A.
Hoenig, D.—See Rafla-Yuan, H.
Holubka, J.W., Schmitz, P.J., and Xu, L-F.,—Acid Etch Resistance of Automotive Clearcoats. I: Laboratory Test Method Development, Feb., p. 77.
Holubka, J.W.—See Haack, L.P.
Holubka, J.W.—See Haack, L.P.
Holubka, J.W.—See Schmitz, P.J.
Holubka, J.W.—See Schmitz, P.J.
Hult, A.—See Johansson, M.

Jansson, A.—See Johansson, M.
Jardret, V., Lucas, B.N., Oliver, W., and Ramamurthy, A.C.—Scratch Durability of Automotive Clear Coatings: A Quantitative, Reliable and Robust Methodology, Aug., p. 79.
Jiang, B.—See Shen, W.C.
Johansson, M., Malmström, E., Jansson, A., and Hult, A.—Novel Concept for Low Temperature Curing Powder Coatings Based on Hyperbranched Polyesters, July, p. 49.
Jones, F.N.—See Diakoumakos, C.D.
Jones, F.N.—See Shen, W.C.
Jones, F.N.—See Wang, C.
Jones, F.N.—Targets for Resin Development in the New Millennium, Oct., p. 153.
Jourdain, C.—See Williams, R.S.
Juhué, D.—See Pinenq, P.

Kappen, J.W.—See Donate, F.A.
Katti, K.S. and Urban, M.W.—Effect of Carbon Black on Adhesion to Plastics in Solventborne 2K Polyurethanes, Apr., p. 35.
Knaebe, M.—See Williams, R.S.
Kobi, A.—See Scibilia, B.
Kurnas, J.S.—See Hare, C.H.

Lavaste, V.—See Lowe, C.
Laven, J.—See Duivenvoorde, F.L.
Ley, D.A.—See Fiori, D.E.
Lin, G.—See Wang, C.
Ling, X., Pritzker, M.D., Burns, C.M., and Byerley, J.J.—Effects of Reaction Conditions on the Formation of Poly(2-Vinylpyridine) Coatings by Electropolymerization, Sept., p. 71.
Lowe, C., Devos, L., Lavaste, V., Simmons, G.C., and Watts, J.F.—Performance of Coil Coating Primers: A Comparison of Three Complementary Test Methods, Oct., p. 135.
Lucas, B.N.—See Jardret, V.
Luciani, A., Plummer, C.J.G., Gensler, R., and Månson, J-A. E.—Surface Pattern Formation in UV-Curable Coatings, Oct., p. 161.
Ma, Y., Zhu, B., and Wu, K.—Preparation of Reversible Thermochromic Building Coatings and Their Properties, Dec., p. 67.
Maetens, D.—See Wu, B.
Malmström, E.—See Johansson, M.
Måson, J-A. E.—See Luciani, A.
Massingill, J.L.—See Zhang, H.
Massingill, J.L.—See Raghavachar, R.
Massingilll J.L.—See Zhang, H.
Mehnert, R.—See Tauber, A.
Meier-Westhues, U.—See Thometzek, P.
Meinema, H.A.—See Frings, S.
Motiejauskaite, A.—See Weissenborn, P.K.

Nadal, M.E. and Thompson, E.A.—New Primary Standard for Specular Gloss Measurements, Dec., p. 61.
Nakayama, Y.—Decomposable Crosslinking Paint: Waste Minimization, Jan., p. 57.
Nguyen, L.H.—See Ryntz, R.A.
Noren, G.K.—Cationic UV-Curable Formulations Containing Hydroxy Functional Fluoropolymer Resins, June, p. 53.

Oliver, W.—See Jardret, V.

Padaki, S.—See Wu, B.
Pae, J-H.—See Wang, C.
Peterseon, P.—See Rodriguez, C.L.
Pinenq, P., Winnik, M.A., Ernst, B., and Juhué, D.—Polymer Diffusion and Mechanical Properties of Films Prepared from Crosslinked Latex Particles—P. Pinenq, M.A. Winnik, B. Ernst, and D. Juhué, Apr., p. 45.
Plummer, C.J.G.—See Luciani, A.
Pollano, G.M.—See Ryntz, R.A.
Polyakova, A., Hiltner, A., Baer, E., and Provider, T.—Effect of Formulation Variables on Coating Properties and Performance in the Deep Draw Process, Feb., p. 69.
Pritzker, M.D.—See Ling, X.
Provder, T.—See Polyakova, A.

Quinn, R.J.—See Fiori, D.E.

Rafla-Yuan, H. and Hoenig, D.—Imaging Ellipsometry Study of Multi-Layer Microflakes, Aug., p. 103.
Raghavachar, R., Sarnecki, G., Baghdachi, J., and Massingill, J.L.—Cationic, Thermally Cured Coatings Using Epoxidized Soybean Oil, Oct., p. 125.
Ramamurthy, A.C.—See Jardret, V.
Rentrop, C.H.A.—See Frings, S.
Rodriguez, C.L., Weathers, J., Corujo, B., and Peterson, P.—Formulating Water-Based Systems with Propylene-Oxide-Based Glycol Ethers, June, p. 67.
Rossi, S.—See Deflorian, F.

Ryntz, R.A., Abell, B.D., Pollano, G.M., Nguyen, L.H., and Shen, W.C.—Scratch Resistance Behavior of Model Coating Systems, May, p. 47.

Sandler, S.R.—See Garcia, S.
Sarnecki, G.—See Raghavachar, R.
Sato, T.—Effect of Turnover Rate on the Change of Concentration of an Unstable Compound in a Dip Coating Bath, July, p. 81.
Scherzer, T.—See Tauber, A.
Schmitz, P.J., Holubka, J.W., and Xu, L-F.—Acid Etch of Automotive Clearcoats II. Comparison of Degradation Chemistry in Laboratory and Field Testing, Mar., p. 53.
Schmitz, P.J., Holubka, J.W., and Xu, L-F.—Mechanism for Environmental Etch of Acrylic Melamine-Based Automotive Clearcoats: Identification of Degradation Products, May, p. 39.
Schmitz, P.J.—See Holubka, J.W.
Scibilia, B., Kobi, A., Chasssagnon, R., and Barreau, A.—Practical Example of a Coating Process Quality Improvement through Designed Experiments, June, p. 73.
Shen, W.C., Jiang, B., and Jones, F.N.—Measurement of Mar Resistance and Study of Marring Mechanism of Polymeric Coatings with Scanning Probe Microscope, Aug., p. 89.
Shen, W.C.—See Ryntz, R.A.
Shen, W.—See Wang, C.
Simmons, G.C.—See Lowe, C.
Slattery, J.C.—See Ding. F.
Springate, R.W.—See Williams, R.S.

Tauber, A., Scherzer, T., and Mehnert, R.—UV Curing of Aqueous Polyurethane Acrylate Dispersions. A Comparative Study by Real-Time FTIR Spectroscopy and Pilot Scale Curing, Dec., p. 51.
Thometzek, P., Freudenberg, U., Meier-Westhues, U., and Yonek, K.—Weather-Stable Low-Gloss Powder Coatings, July, p. 75.
Thompson, E.A.—See Nadal, M.E.
Timmers, D.A.—See Donate, F.A.

Udding-Louwrier, S., Baijards, R.A., and de Jong, E.S.—New Developments in Radiation-Curable Powder Coatings, May, p. 71.
Urban, M.W.—See Katti, K.S.
Usta, S.—See Güner, F.S.

van der Linde, R.—See Frings, S.
van der Linde, R.—See Duivenvoorde, F.L.
van Nostrum, C.F.—See Duivenvoorde, F.L.
van Nostrum, C.F.—See Frings, S.

Walker, F.A.—Polymerization Processes: Part I—Step Growth Polymerization, Feb., p. 61.
Walker, F.A.—Polymerization Processes: Part II—Chain-Growth Polymerization, Mar., p. 79.
Walker, F.A.—Polymerization Processes: Part III—Latexes and Emulsion Polymerization, Apr., p. 27.
Walker, F.A.—Polymerization Processes: Part IV—Other Polymerization Processes, May, p. 35.
Wang, C., Lin, G., Pae, J-H., Jones, F.N., Ye, H., and Shen, W.—Novel Synthesis of Carboxy-Functional Soybean Acrylic-Alkyd Resins for Water-Reducible Coatings, May, p. 55.
Watts, J.F.—See Lowe, C.
Weathers, J.—See Rodriguez, C.L.
Weissenborn, P.K. and Motiejauskaite, A.—Drying of Alkyd Emulsion Paints, July, p. 65.
Werner, R.—Effect of Extenders with Narrow and Broad Particle Size Distributions on the Properties of Coatings, Apr., p. 71.
Williams, R.S. and Knaebe, M.—Restoration of Severely Weathered Wood, Mar., p. 43.
Williams, R.S., Jourdain, C., Daisey, G.I., and Springate, R.W.—Wood Properties Affecting Finish Service Life, Mar., p. 35.
Winnik, M.A.—See Pinenq, P.
Woo, J.—See Ziemer, P.D.
Woo. J.T.—See Zhang, H.
Woo, J.T.K.—See Zhang, H.
Wu, B., Padaki, S., and Maetens, D.—Effect of Acid Groups in Hydroxyl Functional Resins on the Properties of Polyester-Urethane Powder Coatings, July, p. 55.
Wu, K.—See Ma, Y.
Wu, L.—See Diakoumakos, C.D.

Xu, L-F.—See Holubka, J.W.
Xu, L-F.—See Schmitz, P.J.
Xu, L-F.—See Schmitz, P.J.
Xu, Q.—See Diakoumakos, C.D.

Yagci, Y.—See Güner, F.S.
Ye, H.—See Wang, C.
Yonek, K.—See Thometzek, P.

Zhang, H., Massingill, J.L., and Woo, J.T.K.—Low VOC, Low Viscosity UV Cationic Radiation-Cured Ink-Jet Ink System, June, p. 45.
Zhang, H., Massingill, J.L., and Woo, J.T.—Zero VOC Sunlight Curable Coatings, Apr., p. 77.
Zhu, B.—See Ma, Y.
Ziemer, P.D., Woo, J., and Anagnostou, T.—Study of Odor Qualification of Solvents Used in Coating Compositions, Aug., p. 97.